HOSPITAL SYSTEM

CS4310 Software Engineering I: Requirements

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**Patient**

Patient ID, Name, Age, Sex, Address, DOB, SSN, List of Appointments, Payment

**Doctor**

Doctor ID, Name, Age, Address, Department, Salary

**Why this Hospital System**

For medical facility owners who are looking to provide their staff with an easy to use patient management system, and their patients with uninterrupted access to all of their medical information, appointment history, and simple payment options. The Hospital System is a local and web-based management tool that allows hospitals to consolidate their patient data into one secure and accessible location. Where other management systems fail in providing significant backend service, the Hospital System succeeds by offering easy setup to new facilities, but also provides accommodating transition tools for facilities already relying on other systems.

**Create New Account**

Hospital Staff can create a new Account for the patient, which will include the patient's name, age, sex, address, DOB, and SSN.

**Admit New Patient**

Hospital checks to see if a patient already has an account with the Hospital and creates one if they don't. Admitting the patient means adding the patient to the list of patients in the Hospital's private listing.

**Appointments**

Those that have an account with the hospital can set up multiple appointments with the hospitals for checkups of different kinds. The user can add as many appointments as they want with the hospital, provided the appointments don't conflict in time. The user receives an Appointment ID from the hospital for them to keep.

**Check In**

Patients with accounts can check in to a prior appointment. Patients check in with their Patient ID, Appointment ID, and password.

**Check Out**

After an appointment, patients check out of the hospital. Patients check out with their Patient ID, Appointment ID, and password.

**Display Account Information**

Users with an account at the hospital can access the account information they signed up with viewing name, age, sex, address, DOB, SSN and both their past list of appointments and their current list of appointments.

**Account Management**

Users with an account at the hospital can change some of their account information that they signed up with. They can change everything they can view in `Display Account Information` except, age, DOB, and SSN, as well as any patient history.

**Patient History**

A user with an account at the hospital can view their past history. Past history includes their patient information, as well as their past list of appointments and past diagnosis.

**Patient Diagnosis**

Patients can view the official diagnosis that a Doctor gives them.

**Change Rooms**

Staff can check whether or not a room is available based on maximum number of occupancy for that room. User can request rooms based of the same thing.

**List of Allowed Visitors**

Patients are allowed a list of visitors expressed verbally or by their emergency contact information.

**Pharmacy**

Patient provides the prescription ID to the Pharmacy in the hospital. Hospital searches their inventory for the medicine and returns some medicine that includes prescription ID, name, amount, prescribing physician, and expiration date.

**Conclusions**

The Hospital System provides full management functionality to new and existing clients while also providing their patients with immediate access to all of their critical data.

Give us a call and let us show you how we can help improve your company!

|  |  |  |
| --- | --- | --- |
| FIELD | VALUE | COMMENT |
| Staff ID | 001234-A | Staff’s Unique ID |
| First | Jimmy | Patient’s First Name |
| Last | Jones | Patient’s Last Name |
| Account# | 1000 | Patient’s Account # |
| Password | Jones | Patient’s Login Password |
| Age | 25 | Patient’s Age |
| DOB | 3-1-1988 | Patient’s Date of Birth |
| Phone | 510-510-5105 | Patient’s Phone Number |
| Address | 123 Main St. | Patient’s Address |
| City | Hayward | Patient’s City |
| State | CA | Patient’s State |
| SSN | 123-45-678 | Patient’s Social Security Number |
| ApptID | 0025 | Appointment ID |
| ApptDate | 03-03-13 | Appointment Date |
| ApptTime | 5:00 PM | Appointment Time |
| Bill | 500.00 | Amount Owed by Patient |
| Card# | 4455 6677 8899 1100 | Payment Account # |
| Cash | 50.00 | Payment Amount |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Master card | VISA | | AMX | | DISCOVERY |
|  |  | |  | |  |
| Card Number | | | | | 3 digit code |
| Patient Name | | Statement date | | Due Date | |
| Account Number  1000 | | Amount Due  $500.00 | | Amount Paying | |

Hospital System

Billing Report

|  |  |
| --- | --- |
| Jimmy jones  Patient Address | Hospital Name  Patient accounting dept.  Hospital Address |

|  |  |  |  |
| --- | --- | --- | --- |
| Charge Summary | | Account Summary | |
| List of procedures performed  **PATIENT RESPONSIBILITY** | $\*\*\*.\*\*  **$ 500.00** | PATIENT: Jimmy Jones  SERVICE DATES: 3/3/13 to 3/3/13  ACCOUNT #: 1000  TOTAL CHARGES  TOTAL ADJUSTMENTS  TOTAL PAYMENTS  **PATIENT REPSPONSIBILITY** | $500.00  -0.00  -0.00  **$ 500.00** |
| INSURANCE INFORMATION | | QUESTIONS? |  |
| MEDICARE PARTS A  AETNA | |  | |

**Hospital Name Patient Account# 1000**

555 One Hospital St.

Hayward, CA 94540

**Jones, Jimmy**

**General Information**

*Age: 25*

*DOB: 3/1/1988*

*Sex: Male*

*SSN: 123-45-678*

**Contact Information**

*Address:*

*123 Main St.*

*Hayward, CA 94540*

*Phone# 510-510-5105*

*Email: jimmy.jones@mail.com*

**Insurance Information**

*Provider: Insurance Company*

*Account# 192837465*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Appointment History** | | | | | |
|  | **Appt. ID** | **Date** | **Time** | **Physician** | **Notes** |
|  | 0025 | 3/3/13 | 5:00 PM | Smith, M | *Broken Leg* |
|  | 0017 | 1/1/13 | 2:30 PM | Doe, J | *Physical* |
|  | 0001 | 6/17/12 | 9:30 AM | Doe, J | *Initial Checkup* |
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